

# United States Air Force School of Aerospace Medicine (USAFSAM)

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## 2014 Course Catalog




DEPARTMENT OF THE AIR FORCE  
AIR FORCE RESEARCH LABORATORY  
WRIGHT-PATTERSON AIR FORCE BASE OHIO 45433

LETTER FROM THE COMMANDER

I thank you for taking time to learn more about the United States Air Force School of Aerospace Medicine (USAFSAM), and to consider one or more courses for you or someone in your organization. USAFSAM is much more than a schoolhouse. Each course provides students with an opportunity to immerse themselves in an educational experience with superb faculty and interact with the finest airmen in the Air Force Medical Service. USAFSAM emphasizes education, clinical practice, research, and operational support, which are critical for preparing aeromedical experts for future global challenges and meeting the unique medical needs of aviators. Equally valuable is the ability for many students to interact with experts from the Air Force Research Laboratory, the Human Systems Acquisition Program Office, the Air Force Institute for Operational Health, and other operational organizations within the 711<sup>th</sup> Human Performance Wing, and the City of Dayton, Ohio. Together, these elements afford students an unsurpassed and operationally-relevant learning experience.

USAFSAM offers three levels of education – Entry/Apprentice, Operational/Advanced, and Graduate. Entry/Apprentice courses provide lengthy initial training in Aerospace Medicine, Aerospace Physiology, Bioenvironmental Engineering, and Public Health to new officer and enlisted military members. Operational/Advanced courses include a wide variety of specialized courses, which feature in-depth and hands-on training regarding contingency operations or operational health. Examples include the Aircraft Mishap Investigation and Prevention, Critical Care Air Transport Team, and Operational Entomology courses. Finally, USAFSAM offers the world's oldest and largest graduate level Residency in Aerospace Medicine (RAM). Comprised of a 1-year Masters of Public Health program, and a 2-year Aerospace Medicine residency, the RAM includes rotations in occupational and general preventive medicine. Residents have an opportunity to spend time at leading centers of excellence, in both military and civilian settings, including the Federal Aviation Administration, the National Aeronautics and Space Administration, ExxonMobil, the Tinker Air Logistics Center, and others.

One of our most important goals is to develop and enhance international cooperation and understanding through training. Almost all USAFSAM courses are open to international students. In 2013, 44 international students attended USAFSAM courses. The Advanced Aerospace Medicine for International Medical Officers (AAMIMO) course is our flagship international course. During this 6-month course, flight physicians study and examine every aspect of Aerospace Medicine, from physical standards to strategic policy. In its 53-year history, students from 86 countries have attended the AAMIMO course, including 37 students who became their nation's equivalent to the Air Force Surgeon General. Importantly, to represent the international aerospace medicine community as a primary center of excellence, we understand and value the need to learn from and build lasting professional relationships with all international partners.



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## Introduction

The United States Air Force School of Aerospace Medicine (USAFSAM) is an internationally renowned center for aerospace medical learning, consultation, aerospace medical investigations, and aircrew health assessments. USAFSAM promotes readiness and protects force and community health by utilizing a range of tools and expertise including environmental and health surveillance, laboratory and risk analysis, process re-engineering, consultation and technological innovation to maximize operational health capabilities and to solve problems through ingenuity and partnerships. The school trains approximately 4,500 students each year.

USAFSAM courses, workshops, and symposiums are held at the Wright-Patterson Air Force Base unless otherwise stated under the course description. This course catalog is intended to provide a brief course overview, additional information for each course can be found on the Education and Training Course Announcements at <https://etca.randolph.af.mil/default1.asp>.

## Organization

As first-call consultants in Aerospace Medicine, we find solutions to operational needs of today and tomorrow and prepare new aeromedical experts for future global challenges. From the inception of the school, we have striven to be the foremost authority regarding aerospace medical issues. Our vision is to be: “The International Center of Excellence for Aerospace Medicine Consultation, Research, Education, and Training.”

## Program Administration

### Lodging

The Registrar Division Student Resource Center coordinates student lodging. Students may be lodged on or off base depending on availability. If rooms are available on-base, students are required to use them and will not be given non-availability for off-base. The Wright-Patterson Inn consists of 414 rooms divided amongst seven buildings. Wright-Patterson Inns continually strives to provide the best accommodations and customer service to their guests and are constantly undergoing room upgrades and renovations. Amenities include two fitness rooms, a business center, Wi-Fi lounge, game room and several laundry facilities.

### Transportation

For students arriving by air, Dayton International Airport is approximately 16 miles from Wright-Patterson Air Force Base. Commercial taxi is available for transportation from the airport. Prices vary, but on average the cost is between \$40 and \$50. During the course, busses will transport students to school from lodging and back. Rental cars are not funded by USAFSAM.

## **Subsistence**

Pitsenbarger Dining Facility serves military personnel over 250,000 meals per year including flight and ground meals. Serving in a cafeteria-style format, the dining facility is open seven days a week serving 3 meals per day. Pitsenbarger provides a comfortable restaurant type atmosphere for diners. Health conscious patrons can take advantage of the Check It Out program. Check It Out is a planned nutrition program that encourages healthier preparation of foods and healthier choices of food items offered. Steam table and line signs label various entrees and side dishes with their caloric value and fat content. Pitsenbarger is located in the Kittyhawk area, next to the Base Exchange. The USAFSAM dining facility located in building 840, serves lunch during the school week for students in the following courses: Aerospace and Operational Physiology Apprentice, Bioenvironmental Engineering Apprentice, and Public Health Apprentice. Meals are offered to students in other courses on a space-available basis. The course director will notify those students of availability.

## **Clothing**

All students will wear the appropriate uniform when on duty, unless granted an exception. Uniform items and civilian clothing (in official capacity) must be maintained, clean, and serviceable (not frayed, worn out, torn, faded, patched, etc.). Active duty Air Force members are required to wear the Physical Training Uniform while participating in organized physical training events. Reflective belts are required during periods of low light conditions.

## **Facilities and Services**

The Base Exchange is approximately one mile from lodging and located in the Kittyhawk area. It is open to United States Military and International Military Students with limited services to civilian students. Wright-Patt Credit Union offers on base banking and has a branch located in the Kittyhawk area. International Military Students will need a bank account if they wish to cash checks while they are attending school (including living allowance checks and checks from their embassies). There is a Post Office located in the Kittyhawk area. Additionally, the 88<sup>th</sup> Force Support Squadron offers a full range of athletic and recreational facilities. More information can be found at the 88<sup>th</sup> Force Support Squadron website at <http://www.88thservices.com/>.

## **Medical and Dental Services**

Wright-Patterson Medical Center provides comprehensive health care services. Clinic hours are available from 0700-1630 Monday-Friday and there is a 24 hour emergency room. Students in need of immediate medical attention should dial 911. If dialing from a cellular telephone, the on-base emergency number is 937-257-9111. Although annual exams are available for permanent party military members, they are generally not offered to students unless they are medically indicated. Additional information on the clinic can be obtained by logging onto the Wright-Patterson Air Force Base website at <http://www.wpafb.af.mil/units/wpmc/>. Students who are ill or injured and require sick-call will be directed to the Occupational Medicine Clinic or the Wright-Patterson Medical Center for evaluation and treatment.

## **Application Process**

Active Duty personnel should apply through their Unit Training Manager unless otherwise indicated under the course description. Air National Guard, Air Force Reserve, and sister service personnel should contact their scheduling point of contact. International student application procedures are detailed below in the international student information section of this catalog.

## International Student Information

International Military Students are welcome to attend all USAFSAM courses and are supported by the International Training Division who will assist with arrival and departure details as well as lodging, meals, and military pay when needed. International Military Students should arrive in Dayton Ohio no later than two duty days prior to class start date. This will allow time for in-processing and issuance of an identification card. Students may contact the International Military Student Officer, (937) 938-2955 and/or the Noncommissioned Officer in Charge, International Training Division, and (937) 938-3840 with questions regarding their travel within the United States.

International Military Student applicants must work through their embassy and country manager when requesting Air Force training. The application is made by the student's government through the Security Cooperation Officer at the United States Embassy in the applicant's home country. Applications should be initiated at least 12 months prior to the course to ensure that there is time to accomplish the required coordination (under some conditions a shorter interval is possible).

All USAFSAM courses require an English Comprehension Level of 80. International Military Students must meet all mandatory course prerequisites including equivalent United States military grade. International Military Students are required to have in their possession, or have made arrangements for acquiring, all seasonal and special items of clothing listed in their specific course announcements.

## **Advanced Aerospace Medicine for International Medical Officers**

**Course ID: B3OZY48G4 6A1A**

**Course Length: 115 Training Days**

### **Course Description:**

This course prepares international medical officers for professional responsibilities as aerospace medicine consultants, investigators, teachers, and directors of Aerospace Medicine programs in their Air Force specialties. Students will be able to delineate the basic and advanced sciences applicable to aerospace medicine, conduct medical evaluations of clinical problems in aerospace medicine, apply diagnostic and therapeutic techniques for disease entities and disorders peculiar to aerospace medicine, evaluate and resolve aeromedical problems, conduct and participate in physiological training programs, and address advanced issues of the development of doctrine, policy, practices, and procedures of their own nation's Aerospace Medicine program upon completion of this course. This course is not intended for those who have already completed advanced training or residency training in aerospace medicine and are working as specialists in the field.

### **Special Notes:**

This course is limited to International Military Student participation. International Military Students should bring a copy of their latest aerospace physiology certification if completed at a United States Air Force certified location. They should also bring information and audiovisual materials for presentation on their country's medical system and aerospace medicine program.

## **Advanced Clinical Concepts in Aeromedical Evacuation Symposium**

**Course ID: B3OZY48XX 000**

**Course Length: 5 Training Days**

### **Course Description:**

This symposium provides advanced information in clinical aeromedical evacuation for experienced flight surgeons. The instruction is designed to enhance clinical decision making skills of flight surgeons acting as clearing or validating flight surgeons for patients being considered for aeromedical evacuation.

## **Aeromedical Evacuation Technician Full Course**

**Course ID: B3ABY4N0X1 0A0A      Course Length: 20 Training Days**

**Course Description:** This course prepares enlisted airmen to function as an aeromedical evacuation crew member. The course covers tactics, techniques, and procedures to provide safe patient movement. Students receive knowledge and skills required for initial crew resource management, effects of flight physiology on patients and crew members, fundamentals of in-flight patient care, fundamentals of aeromedical evacuation, operation of aeromedical evacuation equipment, and basic principles of aircraft system considerations. Patient assessment and combat casualty care is integrated throughout the course.

**Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

Phase III training and experience is highly recommended for Air Force Reserve/Air National Guard 3-level trainees. The information taught in this course is broken down into increments, Aeromedical Evacuation Technician 101, Increment 1; 102, Increment 2; 103, Increment 3; and 104, Increment 4 offering students the flexibility to attend portions of the training at various times. Together, the incremental courses comprise the same information and course length as the full Aeromedical Evacuation Technician course. Completion of all increments is mandatory to receive an Aeromedical Evacuation Technician Air Force Specialty Code.

## **Aeromedical Evacuation Technician 101, Increment 1**

**Course ID: B3ABY4N0X1 0A1A      Course Length: 3 Training Days**

**Course Description:**

This increment of the full Aeromedical Evacuation Technician course covers, processing and orientation, crew resource management, and altitude chamber training.

**Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Aeromedical Evacuation Technician 102, Increment 2**

**Course ID: B3ABY4N0X1 0A2A      Course Length: 5 Training Days**

**Course Description:**

This increment of the full Aeromedical Evacuation Technician course covers in-flight patient care.

**Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Aeromedical Evacuation Technician 103, Increment 3**

**Course ID: B3ABY4N0X1 0A3A      Course Length: 5 Training Days**

### **Course Description:**

This increment of the full Aeromedical Evacuation Technician course covers aeromedical evacuation basics and evacuation equipment.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Aeromedical Evacuation Technician 104, Increment 4**

**Course ID: B3ABY4N0X1 0A4A      Course Length: 7 Training Days**

### **Course Description:**

This increment of the full Aeromedical Evacuation Technician course covers aircraft considerations and patient care scenarios.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Aerospace & Operational Physiologist Officer Course**

**Course ID: B3OBY43A1 0A1B      Course Length: 30 Training Days**

### **Course Description:**

This course covers principles and application of aviation physiology, science of the earth's atmosphere, introduction to human factors, and aircraft accident investigation techniques, hypobaric altitude chamber operation, night vision equipment, the Barany chair, and associated aircrew life support equipment familiarization training. Students participate in hypobaric altitude chamber flights, centrifuge and spatial disorientation simulator training, and aviation ground school familiarization. Principles of Aerospace and Operational Physiology instruction are included in the content of this course. Students will be required to complete a formal evaluation of chamber crew duties and chamber reactor management. Graduates will be prepared to instruct academic lessons and be familiar with the forms, publications, operation, and maintenance of hypobaric altitude chambers upon completion of this course.

### **Selection Process:**

The Air Force Personnel Center enrolls individuals accessed into the aerospace physiology career field by the Biomedical Science Corps Accession Board.

## **Aerospace & Operational Physiology Apprentice**

**Course ID: B3ABYM031 0A1C**

**Course Length: 42 Training Days**

### **Course Description:**

This course provides students the knowledge and basic skills to perform entry-level duties as an enlisted Aerospace Physiology Apprentice. The course teaches basic facts and terms about aerospace and operational physiology, physiology fundamentals, operation of hypobaric chambers and supporting equipment, other physiological training devices, personal life support equipment, administrative procedures of physiological training, aircraft emergency escape, cabin pressurization, specialized aspects of major command aerospace physiology programs, decompression chamber flight training, cardiopulmonary resuscitation, and customer service.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Aerospace & Operational Physiology Craftsman**

**Course ID: B6ACW4M071 0SAA**

**Course Length: 14 Training Days**

### **Course Description:**

This Advanced Distributed Learning course covers career ladder progression, financial resource management, administration, logistics, unit management, and decompression sickness management.

## **Aerospace Medicine Primary International**

**Course ID: B3OBY48G1 0B5B**

**Course Length: 49 Training Days**

### **Course Description:**

This course prepares International Military Students for basic mission qualification to perform duties in support of Aerospace Medicine programs. It provides the knowledge and skills required for the treatment and proper aeromedical disposition of aircrew and special operations duty members. It introduces students to the unique aeromedical issues pertinent to the flight environment including: aeromedical standards, aerospace physiology, hyperbaric medicine, human performance sustainment, basic and military aviation fundamentals, emergency and operational aerospace medicine, United States Air Force weapon systems and associated missions, clinical aerospace medicine, personnel reliability program, duty-limiting conditions, occupational medicine, public health, bioenvironmental engineering, aeromedical aviation laboratory, aviation mishap investigation and prevention, aeromedical evacuation tools, Occupational Medicine programmatic, emergency response, and contemporary practice of Aerospace Medicine.



## **Aerospace Medicine Primary – United States of America (Non-Department of Defense)**

**Course ID: B3OBY48G1 0B4B**

**Course Length: 30 Training Days**

### **Course Description:**

This course prepares Non-Department of Defense physicians to perform duties as flight surgeons and accomplish the objectives of the United States Air Force Aerospace Medicine Program. It provides the knowledge and skills required for the treatment and proper aeromedical disposition of aircrew members. It strives to prepare the physician to assume a key leadership role as the general preventive aeromedical member of Team Aerospace which synergizes the talents of highly trained specialists in the fields of aerospace medicine, aerospace physiology, bioenvironmental engineering, occupational medicine, and military public health. Non-Department of Defense physicians take the course alongside United States Air Force medical officers (physicians) in training to become Flight Surgeons.

## **Aerospace Medicine Primary 101**

**Course ID: B3OBY48G1 0B1C**

**Course Length: 10 Training Days**

### **Course Description:**

This course is the first of a three-course series comprising the initial qualification training for United States Air Force flight surgeons. It prepares medical officers for basic mission qualification to perform duties in support of the United States Air Force Aerospace Medicine program. It provides the knowledge and skills required for the treatment and proper aeromedical disposition of aircrew and special operations duty members. Specifically, Aerospace Medicine Primary 101 is designed to introduce students to the unique aeromedical issues pertinent to the flight environment including: aeromedical standards, aerospace physiology, hyperbaric medicine, human performance sustainment, basic and military aviation fundamentals, emergency and operational aerospace medicine, and United States Air Force weapon systems and associated missions.

### **Special Notes:**

Successful completion of Aerospace Medicine Primary 101 is a prerequisite to attend Aerospace Medicine Primary 201 or Aerospace Medicine Primary 202, which may be taken in either order.

## **Aerospace Medicine Primary 201**

**Course ID: B3OBY48G1 0B2C**

**Course Length: 10 Training Days**

### **Course Description:**

This course is the second of a three-course series comprising the initial qualification training for United States Air Force flight surgeons. It prepares medical officers for basic mission qualification to perform duties in support of the United States Air Force Aerospace Medicine program. It provides the knowledge and skills required for the treatment and proper aeromedical disposition of aircrew members. Specifically, Aerospace Medicine Primary 201 is designed to introduce the student to the unique aeromedical issues pertinent to the flight environment including medical standards; systems based clinical aerospace medicine, information systems in aerospace medicine, and clinical workshops in aerospace medicine, public health, bioenvironmental engineering, and occupational medicine.

## **Aerospace Medicine Primary 202**

**Course ID: B3OBY48G1 0B3C**

**Course Length: 10 Training Days**

### **Course Description:**

This course is the third course of a three-course series comprising the initial qualification training for United States Air Force flight surgeons. It prepares medical officers for basic mission qualification to perform duties in support of the United States Air Force Aerospace Medicine program. It provides the knowledge and skills required for the treatment and proper aeromedical disposition of aircrew and special operations duty members. Specifically, Aerospace Medicine Primary 202 is designed to introduce students to the unique aeromedical issues pertinent to the flight environment including: aeromedical aviation laboratory and aviation mishap investigation and prevention.

## **Aerospace Medicine Replacement Training Unit Workshop**

**Course ID: B3OBY48G1 0B6B**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop introduces the mission qualification training phase for United States Air Force Flight Surgeons. Students will receive knowledge and skills required to execute roles and responsibilities within the Team Aerospace mission.

## **Aircraft Mishap Investigation & Prevention Aerospace Physiologist**

**Course ID: B3OZY43A3 003**

**Course Length: 10 Training Days**

### **Course Description:**

This course prepares aerospace physiologists to assist in aircraft accident investigations. It reviews human, environmental, and materiel factors which directly or indirectly contribute to the aircraft mishaps. The course employs extensive lab work of simulated or actual aircraft mishaps to learn the keys of accident investigation. Aerospace physiologists will work in teams with psychologists and flight surgeons in this course.

## **Aircraft Mishap Investigation & Prevention Non-USAF Medical Investigator**

**Course ID: B3OZY48G3 010**

**Course Length: 10 Training Days**

### **Course Description:**

This course is designed for non-United States Air Force flight surgeons and covers the safe and proper collection and preservation of evidence, critical analysis of data to determine causation of mishap, and familiarization with safety board processes and resources for assistance. Privileged safety information is not included. Physicians will work in teams with psychologists and physiologists during certain aspects of the course.

## **Aircraft Mishap Investigation & Prevention USAF Clinical Psychologist**

**Course ID: B3OZY42P3 003**

**Course Length: 10 Training Days**

### **Course Description:**

This course is designed for United States Air Force clinical psychologists and covers preparation of aircraft accident investigation assistance, review of human, environmental, and material factors contributing to aircraft mishaps. The course employs extensive lab work of simulated or actual aircraft mishaps to learn the key components of accident investigation. Clinical psychologists will work in teams with flight surgeons and aerospace physiologists in this course.

## **Aircraft Mishap Investigator & Prevention USAF Medical Investigator**

**Course ID: B3OZY48G3 003**

**Course Length: 10 Training Days**

### **Course Description:**

This course is designed for United States Air Force flight surgeons and covers critical analysis of data and determination of causation, safety board procedures, and resources available for assistance. Privileged safety information may be included. Physicians will work in teams with psychologists and physiologists during certain aspects of the course.

## **Bioenvironmental Engineering Advanced Workshop**

**Course ID: B3OZY43E1 0W1A**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop covers critical flight management skills and commonly encountered management issues faced by both element chiefs/flight commanders and flight chiefs/Noncommissioned Officers in Charge.

## **Bioenvironmental Engineering Apprentice**

**Course ID: B3ABY4B031 0A1A**

**Course Length: 71 Training Days**

### **Course Description:**

This course provides students with knowledge on the mission and organization of the United States Air Force Medical Service and Bioenvironmental Engineering Flight program. Guidance on written and oral communication, review/reinforcement of basic mathematic skills, fundamental sciences, and an introduction to Occupational and Environmental Health Site Assessment are covered, as well as the following material: documentation of Occupational and Environmental Health Site Assessment information and use of the Defense Occupational Environmental Health Readiness System, Environmental Protection Programs relating to health risks, Bioenvironmental Engineering Unit Type Code specialized team emergency management responsibilities, and Hazardous Materials specialist training requirements per Code of Federal Regulations 1910.1209q (6) (IV) Hazardous Materials.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Bioenvironmental Engineering Officer Full Course**

**Course ID: B3OBY43E1 0A1A**

**Course Length: 59 Training Days**

### **Course Description:**

This course emphasizes the protection of United States Air Force personnel through operational health risk assessment, communication, management, and casualty prevention from physical, radiological, chemical, and laser hazards in garrison and deployed environments. Students will be trained to identify and evaluate hazards and environmental problems and to design control measures.

### **Special Notes:**

The information taught in this course is broken down into increments, Bioenvironmental Engineering Officer 201, 202, and 203 offering Air Force Reserve and Air National Guard students the flexibility to attend portions of the training at various times. Together, the incremental courses include the same information and course length as the full Bioenvironmental Engineering Officer course.

## **Bioenvironmental Engineering Officer 201**

**Course ID: B3OBY43E1 0A2A**

**Course Length: 22 Training Days**

### **Course Description:**

This increment of the Bioenvironmental Engineering Officer full course covers risk communication basics, occupational and environmental health program foundations and management, potable and non-potable water management, sanitary surveys, water vulnerability assessments, ventilation program management, basics in confined spaces, risk assessment codes, respiratory protection program, Occupational Safety and Health Administration hazardous communication program, and Bioenvironmental Engineering Flight activities.

## **Bioenvironmental Engineering Officer 202**

**Course ID: B3OBY43E1 0A3A**

**Course Length: 202 Training Days**

### **Course Description:**

This increment of the Bioenvironmental Engineering Officer full course covers identification, analysis, and control of chemical, biological, and radiological hazards, sampling techniques and health risk assessments for air, gas, soil, solid, and liquid materials, radiation risk assessment to include ionizing and non-ionizing radiation, and assessing physical hazards such as noise, thermal stress, and ergonomics.

## **Bioenvironmental Engineering Officer 203**

**Course ID: B3OBY43E1 0A4A**

**Course Length: 20 Training Days**

### **Course Description:**

This increment of the Bioenvironmental Engineering Officer full course covers chemical, biological, radiological, nuclear, and enhanced weapon full spectrum threat response training, 29 Code of Federal Regulations 1910.120, Occupational Safety and Health Administration Level 1 Hazardous Materials Responder Awareness and Level 2 Hazardous Materials Operations.

## **Bioenvironmental Engineering Occupational Health Measurement**

**Course ID: B3ACY4B071 0A1B**

**Course Length: 10 Training Days**

### **Course Description:**

This course is designed for enlisted personnel in 7-level upgrade training and personnel in Occupational Health Management positions; it covers assessment and control of chemical, noise, ergonomic and confined space hazards. Students gain the knowledge and skills needed to formulate exposure assessment strategies and individual sampling strategies as well as making recommendations concerning engineering, administrative and personal protective equipment controls.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Bioenvironmental Engineering Readiness & Deployment Skills**

**Course ID: B3XZYBERDS 0A1A**

**Course Length: 10 Training Days**

### **Course Description:**

This course provides personnel assigned to Prevention and Aerospace Medicine, Medical Nuclear, Biological and Chemical, and Global Reach Laydown teams the skills identified in their mission essential task list, Concept of Operations, and Air Force Instructions. The course will consist of home station and deployable emergency response skills and deployment specific tactical skills required to fulfill Bioenvironmental Engineering capabilities.

## **Center for Sustainment of Trauma and Readiness Skills Baltimore, Providers**

**Course ID: B4OZYSTARS 0P1**

**Course Length: 21 Training Days**

### **Course Description:**

This course places Active Duty Air Force, Air Force Reserve, and Air National Guard physicians assigned to mobility positions at the University of Maryland Medical Center/R.A. Cowley Shock Trauma Center where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements of this training includes, clinical skills sustainment disaster response/homeland security partnership, United States Air Force readiness skills verification, expeditionary medical support system support, first-response trauma team components, and experience with selected unique medical equipment that is deployed with expeditionary medical support and other medical personnel.

## **Center for Sustainment of Trauma and Readiness Skills Baltimore, Advance Medic**

**Course ID: B4OZYSTARS S00**

**Course Length: 21 Training Days**

### **Course Description:**

This course places fully trained enlisted advanced medics (Independent Duty Medical Technician, paramedic, or pararescueman) at the University of Maryland Medical Center/R.A. Cowley Shock Trauma Center where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements of this training includes clinical skills sustainment disaster response/homeland security partnership, United States Air Force readiness skills verification, expeditionary medical support system support, first-response trauma team components, and experience with selected unique medical equipment that is deployed with expeditionary medical support and other medical personnel.

## **Center for Sustainment of Trauma and Skills Baltimore, Extended Provider**

**Course ID: B4OZYSTARS 000**

**Course Length: 30 Training Days**

### **Course Description:**

This course places Active Duty Air Force, Air Force Reserve, and Air National Guard physicians assigned to mobility positions at the University of Maryland Medical Center/R.A. Cowley Shock Trauma Center where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements of this training includes clinical skills sustainment disaster response/homeland security partnership, United States Air Force readiness skills verification, expeditionary medical support system support, first-response trauma team components, and experience with selected unique medical equipment that is deployed with expeditionary medical support and other medical personnel.

## **Center for Sustainment of Trauma and Readiness Skills Baltimore, Nurses**

**Course ID: B4OZYSTARS 0N1**

**Course Length: 19 Training Days**

### **Course Description:**

This course places fully trained military nurses at the University of Maryland Medical Center/R.A. Cowley Shock Trauma Center where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements of this training includes clinical skills sustainment disaster response/homeland security partnership, United States Air Force readiness skills verification, expeditionary medical support system support, first-response trauma team components, and experience with selected unique medical equipment that is deployed with expeditionary medical support and other medical personnel.

## **Center for Sustainment of Trauma and Readiness Skills Baltimore, Technicians**

**Course ID: B4OZYSTARS 0T0**

**Course Length: 21 Training Days**

### **Course Description:**

This course places fully trained military technicians at the University of Maryland Medical Center/R.A. Cowley Shock Trauma Center where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements of this training includes clinical skills sustainment disaster response/homeland security partnership, United States Air Force readiness skills verification, expeditionary medical support system support, first-response trauma team components, and experience with selected unique medical equipment that is deployed with expeditionary medical support and other medical personnel.

## **Center for Sustainment of Trauma and Readiness Skills Cincinnati, Advanced Critical Care Air Transport Team**

**Course ID: B4OZYSTARS CI1**

**Course Length: 12 Training Days**

### **Course Description:**

This course places Active Duty Air Force, Air Force Reserve, and Air National Guard providers assigned to the trauma and critical care Unit Type Codes at Cincinnati University Hospital Trauma Center, Cincinnati, Ohio where large numbers of trauma and critical care patients are treated. The program requirements are accomplished through hands on patient care as well as in the classroom. The lecture series and skills labs are designed to optimize the student's knowledge of Critical Care Air Transport Team specific clinical scenarios and use of equipment. The course culminates in a flight exercise involving a training mission when possible. This course enables the student to complete Air Force Specialty Code specific readiness skills verifications as well as the Air Material Command's defined sustainment goal of "validation" for the Critical Care Air Transport Team Unit Type Code. The course is designed to meet 100% of the readiness skills verification for individuals assigned to the Critical Care Air Transport Team Unit Type Code.

## **Center for Sustainment of Trauma and Readiness Skills St. Louis**

**Course ID: B4OZYSTARS SL1**

**Course Length: 12 Training Days**

### **Course Description:**

This course places fully trained military nurses, technicians, and physicians at St. Louis University where large numbers of trauma and critical care patients are treated. This civilian-military collaboration provides both the civilian and military participants a unique opportunity to learn from each other in a high-volume setting. Key elements: United States Air Force readiness skills verification supports expeditionary medical support system and first-response trauma team components and provides experience with selected unique medical equipment deployed with expeditionary medical support and other medical personnel. Physicians also attend Advanced Trauma Life Support and nurses attend Advanced Trauma Care for Nurses.



## **Chief, Aerospace Medicine & Advanced Flight Surgeon Symposium**

**Course ID: B3OZY48G3 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This symposium provides flight surgeons with the knowledge and skills required to perform in the role of a senior aerospace medicine physician leader at their Medical Treatment Facility. Training consists of lectures on leadership, management, and various other Chief of Aerospace medicine related topics.

## **Clinical Hyperbaric Technician Course**

**Course ID: B3AZY4X0X1 006**

**Course Length: 10 Training Days**

### **Course Description:**

This course prepares 5 and 7 level enlisted medical technicians to perform inside observer duties and crew positions, use prescribed decompression treatment tables, understand gas laws, and apply safety principles involved in chamber operations, theory, and indications for treatment of patients.

### **Application Process:**

Air Force Specialty Code 4N0X1 and 4M0X1 (Army or Navy equivalent) being assigned to a hyperbaric facility should contact the USAFSAM Training Coordinator at Defense Switch Network 798-2810 or commercial 937-938-2810 for enrollment procedures.

## **Clinical Hyperbaric Technician Course (Mobile)**

**Course ID: B4AZY4X0X1 0A1A**

**Course Length: 10 Training Days**

### **Course Description:**

This course prepares 5 and 7 level enlisted medical technicians to perform inside observer duties and crew positions, use prescribed decompression treatment tables, understand gas laws, and apply safety principles involved in chamber operations, theory, and indications for treatment of patients.

### **Application Process:**

Air Force Specialty Code 4N0X1 and 4M0X1 (Army or Navy equivalent) being assigned to a hyperbaric facility should contact the USAFSAM Training Coordinator at Defense Switch Network 798-2810 or commercial 937-938-2810 for enrollment procedures.

## **Community Health Workshop**

**Course ID: B3AZYCHWXX 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop is designed for enlisted Public Health technicians and covers the fundamentals of Community Health for personnel transitioning to the Community Health element of Public Health.

## **Contingency Preventive Medicine Course**

**Course ID: B3OZY4XXX 0B1C**

**Course Length: 5 Training Days**

### **Course Description:**

This course provides training to enlisted and officer personnel who have preventive medicine missions during wartime contingencies, military operations other than war, and/or natural disaster relief operations. This is the in-resident portion of the contingency preventive medicine course, and provides 40 hours of instruction in a field environment. This course augments the training accomplished through the distance learning format reinforcing the essential knowledge of bare base assets, preventive medicine readiness issues, personal protection from arthropods, arthropod borne diseases of military significance, dangerous flora and fauna, field sanitation and hygiene, contingency contracting, field drinking water standards, reverse osmosis water purification unit, field industrial hygiene, outbreak investigation, environmental health site assessments, characteristics of biological weapons, characteristics of chemical weapons, characteristics of nuclear/radiological weapons, humanitarian operations, and after action reporting.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Contingency Preventive Medicine Course Distance Learning**

**Course ID: B6MNW4XXXX 0DSB**

**Course Length: 40 Hours**

### **Course Description:**

This is a self paced distance learning course of instruction and provides training to enlisted and officer personnel who have preventive medicine missions during wartime contingencies, military operations other than war, and/or natural disaster relief operations. It provides essential knowledge of bare base assets, preventive medicine readiness issues, personal protection from arthropods, arthropod borne diseases of military significance, dangerous flora and fauna, field sanitation and hygiene, contingency contracting, field drinking water standards, reverse osmosis water purification unit, field industrial hygiene, outbreak investigation, environmental health site assessments, characteristics of biological weapons, characteristics of chemical weapons, characteristics of nuclear/radiological weapons, humanitarian operations, and after action reporting.

## **Critical Care Air Transport Team**

**Course ID: B3OZYCCATT 001**

**Course Length: 10 Training Days**

### **Course Description:**

This course prepares officers and enlisted personnel performing duty in Air Force Specialty Code 44Y3, 44Y3A, 44M3 (All Shreds), 44E3A, 45A3, 45S3, 45S3A, 44FS, 48R3, 44K3E, 44K3B, 44K3J, 46N3E, 46N3F, 46N3J, 46M3, and 4H0X1 assigned to Critical Care Air Transport Team Unit Type Codes to meet wartime mission of caring for critically ill and injured patients in the aeromedical evacuation environment.

## **Emergency Evacuation Hyperbaric Stretcher Mobile**

**Course ID: B7OZYEEHS 0A1A**

**Course Length: 2 Training Days**

### **Course Description:**

This course provides Special Operations Forces Medical Element personnel with information on hyperbaric physiology, hyperbaric medicine, hyperbaric chamber safety, use of decompression schedules and treatment tables, and the theory and application of hyperbaric oxygenation. The course provides advanced training in the theory, operation and maintenance of an emergency evacuation hyperbaric stretcher, the duties and responsibilities of emergency evacuation hyperbaric stretcher team members, and patient care options. Training includes an exercise and evaluation where teams respond to a medical emergency that requires treatment with an emergency evacuation hyperbaric stretcher.

### **Special Notes:**

Adjustments to the class length may be made based on equipment, instructor, and facility availability. The course is normally taught at various locations requiring instructors to travel to those locations. Funding is provided by the requesting unit.

## **Enlisted Human Performance Enhancement**

**Course ID: B3AZY4M0X1 0A1A**

**Course Length: 10 Training Days**

### **Course Description:**

This course prepares Aerospace and Operational Physiology technicians to instruct/advise war fighters, both flyers and non-flyers, on the physiological stresses and human performance implications of modern military aviation, space operations, and worldwide deployment environments.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Flight and Operational Medicine Technician**

**Course ID: B3AZY4N0XF 0A1A**

**Course Length: 15 Training Days**

### **Course Description:**

This course is designed for Aerospace Medical Service Technicians assigned to Flight Medicine and teaches the processes required to complete flight medicine physical exams through practical scenarios, discussion, and hands on application providing a better understanding of the processes of the flight medicine clinic.

## **Flight Medicine Management Workshop**

**Course ID: B3AZY4N0XX 0A1B**

**Course Length: 8 Training Days**

### **Course Description:**

This workshop provides Aerospace Medical Service Technicians, civilian technicians, and nurses assigned to a Flight Medicine clinic with knowledge of Flight Medicine Clinic operations and programs expediting the ability to support those programs and the assigned Flight Surgeons at their Military Treatment Facility. Programs include: Preventive Health Assessment and Individual Medical Readiness, Aeromedical Information Waiver Tracking System, Physical Examination Processing Program, and Aviation Soft Contact Lens Program.

## **Flight Nurse Full Course**

**Course ID: B3OBY46FX 0N0A**

**Course Length: 20 Training Days**

### **Course Description:**

This course prepares nurses to function as an aeromedical evacuation crew member. The course covers the tactics, techniques, and procedures necessary to provide safe patient movement including the knowledge and skills for: initial crew resource management, effects of flight physiology on patients and crew members, fundamentals of in-flight patient care, fundamentals of aeromedical evacuation, operation of aeromedical evacuation equipment, basic principles of aircraft system considerations, and patient care scenarios. Nursing assessment and care of combat casualties is integrated throughout the course. Training is composed of both academic and technical instruction, coupled with practical exercises simulating actual operational conditions, performance checks, and corps specific field situations. The course is designed to promote team performance, cohesion, and cross-training/utilization of all personnel.

### **Special Notes:**

The information taught in this course is broken down into four increments, Flight Nurse 101, 102, 103, and 104 providing students the flexibility to attend portions of the training at various times. Together, the incremental courses include the same information and course length as the full Flight Nurse course. If a nurse is required to, or plans to complete all four increments, they must complete increments sequentially. To be awarded a Flight Nurse Air Force Specialty Code, the nurse must either complete the full Flight Nurse course or all four increments (in sequence).

## **Flight Nurse 101**

**Course ID: B3OBY46FX 0N1A**

**Course Length: 3 Training Days**

### **Course Description:**

This increment of the Flight Nurse full course consists of in-processing/orientation, crew resource management, and altitude chamber (conducted by the USAFSAM Physiology Department).

## **Flight Nurse 102**

**Course ID: B3OBY46FX 0N2A**

**Course Length: 5 Training Days**

### **Course Description:**

This increment of the Flight Nurse full course consists of in-flight patient care.

## **Flight Nurse 103**

**Course ID: B3OBY46FX 0N3A Course Length: 5 Training Days**

Course Description:

This increment of the Flight Nurse full course consists of aeromedical evacuation basics and aeromedical evacuation equipment.

## **Flight Nurse 104**

**Course ID: B3OBY46FX 0N4A Course Length: 7 Training Days**

Course Description:

This increment of the Flight Nurse full course consists of aircraft considerations, patient care scenarios, and graduation.

## **Force Health Workshop**

**Course ID: B3AZYFHWXX 0A1A Course Length: 4 Training Days**

Course Description:

This workshop prepares enlisted Public Health technicians in the grade of Staff Sergeant (E-5 or higher) transitioning to the Force Health Management element of Public Health by covering deployment health assessments, preventive health assessments, and effective integration into Force Health Management.

## **Global Medicine Symposium**

**Course ID: B3OZY48X0 000 Course Length: 10 Training Days**

Course Description:

This symposium prepares military physicians, physician assistants, and Independent Duty Medical Technicians to plan, prepare, and execute medical support for operational missions. Operational military physicians are prepared to recognize, diagnose, and treat non-endemic or unusual diseases and conditions in the United States upon completion of this training.

## **Health Promotion Workshop**

**Course ID: B3OZYHPRO 000 Course Length: 4 Training Days**

Course Description:

This workshop prepares AF Health and Wellness Center exercise physiologists, health educators, and registered dietitians in Health Promotion with an emphasis on standardized health promotion programs and services currently offered at HAWCs. Training covers program development, implementation, and evaluation as well as needs assessment, program facilitation and marketing, team building and partnerships, and communication.

## **Hearing Conservation Certification**

**Course ID: B3AZY4F0X1 0A1A**

**Course Length: 4 Training Days**

### **Course Description:**

This course reviews the knowledge and skills required for occupational hearing conservationists working in the United States Air Force Hearing Conservation Program including publication relating to noise and hearing loss, audiometer and test environment, audiometric techniques, audiogram reviews, referral and employee follow up, personnel hearing protection, employee education and motivation, record keeping, and United States Air Force Hearing Conservation Program conduction. Graduates will be certified as United States Air Force Hearing Conservationists for 5 years as identified in the Council for Accreditation in Occupational Hearing Conservation guidelines

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Hearing Conservation Recertification**

**Course ID: B3AZY4F0X1 OR1A**

**Course Length: 2 Training Days**

### **Course Description:**

This course reviews the knowledge and skills required for occupational hearing conservationists working in the United States Air Force Hearing Conservation Program including: administrative and physiological aspects, the audiometer and test environment, audiometric techniques, audiogram review, referral and employee follow up, fitting personnel hearing protection, employee education and motivation, record keeping, and conducting the United States Air Force Hearing Conservation Program. Graduates will be recertified as United States Air Force Hearing Conservationists for 5 years as identified in the Council for Accreditation in Occupational Hearing Conservation guidelines.

## **Hyperbaric Supplemental Diver Course**

**Course ID: B3OZY4HPT 0A1A**

**Course Length: 3 Training Days**

### **Course Description:**

This course is designed for United States Air Force officers selected for team member duty as a primary or supplemental medical specialist in hyperbaric medical operations with an Air Force Specialty Code of 43AX, M11XXX, M12XXX, 42XX, 44XX, 45XX, 46XX, 47XX, or 48XX and enlisted Aerospace and Operational Physiology technician or individuals selected for United States Air Force hyperbaric technician duty. It introduces the principles of hyperbaric medicine and hyperbaric physiology, hyperbaric medicine, hyperbaric chamber safety, use of decompression schedules, treatment tables, emergency procedures, hyperbaric team positions, advances in hyperbaric medicine, and the application and theory of hyperbaric oxygenation. A chamber dive is included in the course.

### **Special Notes:**

This course is held at Lackland Air Force Base, Texas

## **Hyperbaric Supplemental Diver Course (Mobile)**

**Course ID: B4OZY4HPT 0A1A**

**Course Length: 3 Training Days**

### **Course Description:**

This course is designed for United States Air Force officers selected for team member duty as a primary or supplemental medical specialist in hyperbaric medical operations with an Air Force Specialty Code of 43AX, M11XXX, M12XXX, 42XX, 44XX, 45XX, 46XX, 47XX, or 48XX and enlisted Aerospace and Operational Physiology technician or individuals selected for United States Air Force hyperbaric technician duty. It introduces the principles of hyperbaric medicine and hyperbaric physiology, hyperbaric medicine, hyperbaric chamber safety, use of decompression schedules, treatment tables, emergency procedures, hyperbaric team positions, advances in hyperbaric medicine, and the application and theory of hyperbaric oxygenation. A chamber dive is included in the course.

## **Medical Group Commanders Aerospace Medicine Workshop**

**Course ID: B3OZYMDGCC 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop is designed to inform new Medical Group Commander selectees of the mission mandates specific to Aerospace Medicine at their Military Treatment Facility. Students will experience the altitude chamber, human centrifuge, Barany chair, spatial disorientation simulator, parachute virtual reality simulator, and an orientation flight in a United States Air Force trainer aircraft (T-6, T-38, or T-1) when operationally feasible.

## **Medical Personnel Reliability Program Workshop**

**Course ID: B3OZYPRP 0A1A**

**Course Length: 4 Training Days**

### **Course Description:**

This workshop is designed for health care providers designated as lead or primary competent medical authority and for individuals designated as base medical personnel reliability program monitors providing knowledge and skills to appropriately manage the medical components of the personnel reliability program covering the program overview, impact of medical conditions on ability/reliability, and recognition of potentially disqualifying information as well as documentation and reporting, management of suspension and decertification recommendations, and the process for returning a member to personnel reliability program status.

## **Military Audiology Workshop**

**Course ID: B3OZY42N3A 0M1A**

**Course Length: 3 Training Days**

### **Course Description:**

This workshop covers theories and techniques of clinical audiology and the United States Air Force Hearing Conservation Program directed toward audiologists and communication disorder specialists. Topics covered include: worker's compensation, quality assurance, site of lesion testing, hearing and evaluations, hearing conservation data registry, audiology clinic and hearing conservation program management, and the Council for Accreditation for Occupational Hearing Conservation certifications with special emphasis on mobility readiness roles.



## **Military Tropical Medicine 1**

**Course ID: B5OZYMTM 001**

**Course Length: 20 Training Days**

### **Course Description:**

This tri-service course is open to physicians and veterinarians from each service. It accommodates approximately 70 medical officers (30 Army, 30 Navy, and 10 Air Force) and is managed by Navy School of Health Sciences, Bethesda, at Uniformed Services University of the Health Sciences in Bethesda Maryland. This course has resulted from a consolidation of the Walter Reed Army Institute of Research's Tropical Medicine and the Navy's Medicine in the Tropics courses. The course maintains the long history of Walter Reeds Army Institute of Research course's top-notch lecturers and combines them with the Navy course's laboratory and field trips for practical experience (Military Tropical Medicine 2). The didactic portion of the course covers a broad range of topics in infectious diseases and tropical medicine. The equally comprehensive labs include everything from intestinal protozoa and helminthes to malaria. Live specimens are used when feasible, and hands-on training is emphasized.

### **Special Notes:**

Priority in selection of Air Force candidates will be given to Infectious Disease Fellows and General Preventive Medicine residents. All others will be evaluated on a case-by-case basis with emphasis on primary care positions.

## **Military Tropical Medicine 2**

**Course ID: B5OZYMTM 002**

**Course Length: 12 Training Days**

### **Course Description:**

This tri-service course is designed to prepare physicians and veterinarians from each service. Students will be divided into groups and go to various field sites such as Dominican Republic, Guyana, and Belize for the purpose of seeing patients and gaining exposure to health care systems in the developing world. Each team will set up a field medicine site for a series of 1-day clinics in remote, medically underserved regions. The spectrum of infectious disease ranges from echinococcosis and schistosomiasis to extra-pulmonary tuberculosis and bacterial meningitides. Infectious Disease Fellows have the option to attend one of the Navy or Army overseas labs for 2 to 4 weeks after the didactic course or a rotation at the Navy Medical Research Unit - Three (Naval Medical Research Unit-3) in Cairo, Egypt which provides unique opportunities to evaluate patients at affiliated hospitals.

### **Special Notes:**

Infectious Disease Fellows and General Preventive Medicine residents have priority to attend this course. All others will be evaluated on a case-by-case basis with emphasis on primary care positions.

## **Occupational Health Workshop**

**Course ID: B3AZYOHWXX 0A1A**

**Course Length: 3 Training Days**

### **Course Description:**

This workshop is designed for enlisted Public Health technicians in the grade of Staff Sergeant (E-5) or higher transitioning to the Occupational Health element of Public Health and will expand student knowledge of Occupational Safety and Health Administration and Air Force occupational health standards while focusing on new education programs for shop supervisors and preventive health management of occupational health employees.

### **Special Notes:**

Students are highly encouraged to attend this course concurrently with Hearing Conservation Recertification (B3AZY4F0X1 0R1A) enrolling in Hearing Conservation Recertification course first.

## **Occupational Medicine Symposium**

**Course ID: B3OZY48X0 003**

**Course Length: 5 Training Days**

### **Course Description:**

This symposium covers the routine practice of occupational medicine and is designed for physicians new to flight medicine and family medicine practitioners (physicians and physician assistants) who see occupational medicine patients.

## **Officer Human Performance Enhancement**

**Course ID: B3OZY43A3 0A1A**

**Course Length: 10 Training Days**

### **Course Description:**

This course provides Aerospace and Operational Physiology officers the advanced knowledge and training necessary to perform duties in the human performance field. It will prepare personnel to instruct/advise war fighters, both flyers and non-flyers, on the physiological stresses and human performance implications of modern military aviation, space operations, and worldwide deployment environments. Aerospace and Operational Physiology officers who successfully complete this course are eligible for upgrade to Air Force Specialty Code 43A3, if all other requirements are met.

### **Special Notes:**

It is highly recommended members have participated in aircrew pre- and post-flight debriefing, wing life support working group, annual instrument refresher course, wing and/or squadron safety meetings, and flight line involvement through orientation flights and/or simulator time. Students will also benefit from orientation of the following support organizations: maintenance, weather, air traffic control, fire department, and security forces.

Students should be familiar and have a basic understanding of the unclassified portion of Air Force tactics, techniques and procedures Air Force Tactics, Techniques, and Procedures 3-1 and 3-3.

## **Operational Entomology Course**

**Course ID: B3XZYOECCX 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This course is designed for Public Health technicians in the grade of Senior Airman (E-4) or higher in 7-level upgrade training, Civil Engineering technicians, and Public Health officers building individual capabilities to perform surveillance and control for disease vectors that impact military missions during war or operations other than war. The course emphasizes prevention of vector-borne disease morbidity and mortality, and instruction includes vector biology, vector borne disease, surveillance techniques, risk assessment, and control strategies.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

Priority is given to active duty Air Force Specialty Code 4E031/3E4X3 enrolled in 7-level upgrade training and personnel assigned to mobility positions or from installations with a high risk of vector-borne disease.

## **Public Health Apprenticeship**

**Course ID: B3ABY4E031 0A1C**

**Course Length: 55 Training Days**

### **Course Description:**

This course is designed for non-prior service students and enlisted personnel cross training into the public health career field. Basic public health principles and techniques to include scenarios, discussion, and hands on experience are covered and students will earn a hearing conservation certification during this course. Skills obtained will address duties commonly encountered by 3-skill level personnel.

### **Special Notes:**

This is a Community College of the Air Force collegiate-level credit awarding course.

## **Public Health Management Workshop**

**Course ID: B3OZYPHMWX 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop introduces junior officers and senior enlisted members who manage public health flights on the management and execution of standardized processes in Force Health Management, Community Health, Occupational Health, Health Services Inspection, readiness skills programs, Air Force Specialty Code specific training, data systems, compliance measures, tri-service food code, joint base complexities and consultant expertise.

## **Public Health Officer Advanced Workshop**

**Course ID: B3OZY43H3 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This workshop designed for United States Air Force Public Health officers emphasizes management and administration with topics focusing on food safety, communicable diseases, preventive medicine, clinical occupational health, occupational health education, epidemiology, medical readiness, medical entomology, computer applications, Major Command/Health System Institute visits, and career planning and office management. Students will present a topic/issue encountered at the base level public health office.

## **Public Health Officer Full Course**

**Course ID: B3OBY43H1 0A0C**

**Course Length: 49 Training Days**

### **Course Description:**

This course prepares Active Duty or Air Force Reserve officers entering the public health career field with an understanding of the Team Aerospace Mission and Organization. The course covers applications in preventive and public health techniques to reduce and control disease, injury, and premature death and includes information on public health management, communicable disease surveillance and control, occupational illness prevention, food safety and facility sanitation inspection, operational public health practices, and entomology and contingency medicine concepts.

### **Special Notes:**

The information taught in this course is broken down into increments, Public Health Officer Increments 1 - 5 offering Air Force Reserve and Air National Guard students the flexibility to attend portions of the training at various times. Together, the incremental courses comprise the same information and course length as the full Public Health Officer course.

## **Public Health Officer Increment 1**

**Course ID: B3OBY43H1 0A1C**

**Course Length: 9 Training Days**

### **Course Description:**

This increment of the full Public Health Officer course prepares public health officers with an understanding of the Team Aerospace Mission and organization and public health program management in support of the United States Air Force Aerospace Medicine program. Training focuses on the organizations structure, and the role and mission of Air National Guard and Air Force Reserve forces. Further training focuses on communication skills, risk communication, computer operations and skills, and staff and office management.

## **Public Health Officer Increment 2**

**Course ID: B3OBY43H1 0A2C**

**Course Length: 10 Training Days**

### **Course Description:**

This increment of the full Public Health Officer course prepares public health officers to manage public health programs in support of the Aerospace Medicine program including concepts in epidemiology, sexually transmitted disease prevention and control, modes of transmission, surveillance, methods of prevention, treatment, and etiology of communicable disease.

### **Public Health Officer Increment 3**

**Course ID: B3OBY43H1 0A3C**

**Course Length: 10 Training Days**

#### **Course Description:**

This increment of the full Public Health Officer course prepares public health officers to manage public health programs in support of the Aerospace Medicine program. Topics include toxicology, industrial operations, occupational health maintenance, personal protective equipment, hearing conservation, respiratory protection, ergonomics, occupational illness and investigation, worker's compensation, fetal protection, radiation principles and programs, occupational examination requirements, trend analysis, occupational educational programs, environmental programs, force health management, including medical standards, deployment processing, preventive health assessment and individual medical readiness management.

### **Public Health Officer Increment 4**

**Course ID: B3OBY43H1 0A4C**

**Course Length: 10 Training Days**

#### **Course Description:**

This increment of the full Public Health Officer course prepares public health officers to manage public health programs in support of the Aerospace Medicine Program. Topics include food safety, food chemistry and microbiology, subsistence sampling and storage procedures, military subsistence inspection procedures, food production, root source approval, food security/vulnerability assessment, food facility inspection, and evaluation/principles of food-borne illness control.

### **Public Health Officer Increment 5**

**Course ID: B3OBY43H1 0A5C**

**Course Length: 10 Training Days**

#### **Course Description:**

This increment of the full Public Health Officer course prepares public health officers to manage public health programs in support of the United States Air Force Aerospace Medicine Program. Topics include operational entomology, disease vector identification, surveillance and control; military quarantine procedures, contingency preventive medicine concepts, humanitarian missions, medical intelligence, pre- and post-deployment planning activities, field sanitation and hygiene, Chemical, Biological, Radiation and Nuclear agent characteristics and detection.

### **Refractive Surgery Workshop & Operational Eye Care**

**Course ID: B3OZYPRKCE 0A1A**

**Course Length: 4 Training Days**

#### **Course Description:**

This workshop is designed for United States Air Force optometrists, ophthalmologists, technicians, and other staff assigned to United States Air Force eye care clinics. Topics covered include fundamentals of laser based Corneal Refractive Surgery technology and techniques, pre- and post-Corneal Refractive Surgery management, specific program requirements, and Air Force operational vision policies and procedures.

## **Residency in Aerospace Medicine Phase II**

**Course ID: B5OAY48A4 000**

**Course Length: 3 Years**

### **Course Description:**

This residency provides advanced training in Aerospace Medicine leading to eligibility for certification by the American Board of Preventive Medicine in aerospace medicine. The Residency in Aerospace Medicine and Family Medicine sequential arrangement provides an opportunity for those without prior specialty training eligibility for certification by the American Board of Family Practice.

The following residency options are available:

**Residency in Aerospace Medicine:** Consists of two phases over 3 years. Phase I is a single academic year of graduate study in preventive medicine at a school of public health accredited by the Council on Education for Public Health culminating in a Masters of Public Health degree. Other equivalent Master's degree programs may be acceptable. Phase II involves two aerospace medicine practicum years accredited by the Accreditation Council for Graduate Medical Education. Training includes aerospace, occupational, and general preventive disciplines to include human factors, aerospace physiology, aircrew medical standards, health maintenance of patients, health administration, biodynamics, crash survivability, passenger health and safety, management, aeromedical research, operational support, aviation competency training, aircraft mishap investigation, clinical aerospace medicine, space medicine, community and international health, and hyperbaric medicine.

**Residency in Aerospace Medicine Family Medicine:** Consists of 3 years of Family Practice training that immediately follow the Residency in Aerospace Medicine program as an option for those without prior specialty training. Residents who are pre-selected for this program continue on to the Wright State University Family Practice 3-year residency after the 3-year Aerospace Medicine residency requirement. The Family Practice residency is integrated with advanced aeromedical training and provides the most rapid means for an unspecialized physician to train and return to flight medicine with a full breadth of clinical and operational capabilities.

## **Tactical Critical Care Evacuation Team Course**

**Course ID: B4OZYTCET 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This course is designed for physicians, nurses, and medical technicians assigned to the Tactical Critical Care Evacuation Team Unit Type Code and provides comprehensive exposure to early trauma care accentuating the tenets set forth by the Committee on Tactical Combat Casualty to include en route care on a rotary wing aircraft.

## **Top Knife for Operators Support**

**Course ID: B3OZYTKOSX 0A1A**

**Course Length: 5 Training Days**

### **Course Description:**

This course is designed for medical professionals supporting the operators for remotely piloted aircraft, intelligence surveillance reconnaissance, and distributed common ground system imagery analysts. Course will mirror the remotely piloted aircraft senior officer's course. Like Top-Knife, a remotely piloted aircraft -variant course, training will familiarize medical officers (Flight Surgeons, Physiologists and Psychologists) with the primary weapon system (MQ-1/9 system fundamentals, checklists, operation, etc.), its missions (i.e., concept of operations, associated techniques, tactics, and procedures, etc.), the community's terminology/vernacular, and the prevalent occupational/human performance considerations. Students will play the role of pilot and sensor operator in the predator mission aircrew training system, guided by an operational subject matter expert/instructor. Students will partake in several missions in the training environment, which have the advantage of being an unclassified environment. The missions cover launch through recovery and are of sufficient brevity that students will gain an understanding of a full mission.

## **Undersea and Hyperbaric Medicine Fellowship**

**Course ID: B5OZY48A4 001**

**Course Length: 1 Year**

### **Course Description:**

This post-graduate fellowship designed for physicians is an intense study in hypo and hyperbaric physiology, undersea and diving medicine, and clinical hyperbarics. Significant emphasis is placed on military operational problems derived from excursions within the vertical continuum of pressure from the ocean floors to outer space. Research opportunities exist in the basic science, animal, clinical, and operational medicine arenas.